

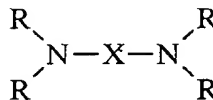
What is claimed is:

1. An ultrasonic cleaning composition comprising from 0.001% to 99%, by weight of composition of an ultrasonic cleaning agent, wherein said composition is low foaming, has an inter facial tension of from  $10 \text{ mNm}^{-1}$  to  $0.0001 \text{ mNm}^{-1}$  and is substantially free of antifoaming agents.
2. An ultrasonic cleaning composition according to claim 1 wherein said composition has an inter facial tension of from  $1 \text{ mNm}^{-1}$  to  $0.0001 \text{ mNm}^{-1}$ .
3. An ultrasonic cleaning composition according to either of claims 1 or 2 wherein said ultrasonic cleaning agent is selected from the group consisting of builders, surfactants, enzymes, bleach activators, bleach catalysts, bleach boosters, bleaches, alkalinity sources, antibacterial agent, colorants, perfume, lime soap dispersants, polymeric dye transfer inhibiting agents, crystal growth inhibitors, photobleaches, heavy metal ion sequestrants, anti-tarnishing agents, anti-microbial agents, anti-oxidants, anti-redeposition agents, soil release polymers, electrolytes, pH modifiers, thickeners, abrasives, metal ion salts, enzyme stabilizers, corrosion inhibitors, diamines, suds stabilizing polymers, solvents, process aids, perfumes, fabric softening agents, optical brighteners, hydrotropes. and mixtures thereof.
4. An ultrasonic cleaning composition according to any of claims 1 to 3 wherein said composition has suds height of less than 80 mm according to the suds cylinder test.
5. An ultrasonic cleaning composition according to any of claims 1 to 4 wherein said composition is in the form of a liquid, tablet, paste, gel, microemulsion or tricritical composition.
6. An ultrasonic cleaning composition according to any of claims 3 to 5 wherein said surfactant is selected from the group consisting of anionic, nonionic, amphoteric, cationic, zwitterionic and mixtures thereof.

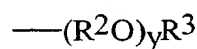
7. An ultrasonic cleaning composition according to claim 6 wherein said anionic surfactant is selected from the group consisting of C<sub>6</sub> to C<sub>18</sub> branched or linear alkyl sulfates, C<sub>6</sub> to C<sub>18</sub> branched or linear alkyl benzene sulfonates, C<sub>6</sub> to C<sub>18</sub> branched or linear alkyl alkoxy sulfates, C<sub>6</sub> to C<sub>18</sub> branched or linear alkyl carboxylates, and mixtures thereof.
8. An ultrasonic cleaning composition according to claim 6 wherein said nonionic surfactant is selected from the group consisting of nonionic surfactant selected from the group consisting of polyhydroxy fatty acid amides, betaines, sulfobetaines, alkyl polyglycosides, alkyl ethoxylates, amine oxide, ether-capped poly(oxyalkylated) alcohols, low foaming nonionic surfactants and mixtures thereof.
9. An ultrasonic cleaning composition according to any of claims 3 to 8 wherein said enzyme is selected from the group consisting of protease, amylases, cellulases, lipases, hemicellulases, peroxidases, gluco-amylases, cutinases, pectinases, xylanases, reductases, oxidases, phenoloxidases, lipxygenases, ligninases, pullulanases, tannases, pentosanases, malanases,  $\beta$ -glucanases, arabinosidases and mixtures thereof.
10. An ultrasonic cleaning composition according to any of claims 3 to 9 wherein said composition comprises a bleach and said bleach is an oxygen bleach.
11. An ultrasonic cleaning composition according to any of claims 1 to 10 wherein said composition further comprises a bleach activator, bleach catalyst and mixtures thereof.
12. An ultrasonic cleaning composition according to any of claims 3 to 11 wherein said builder is selected from the group consisting of aluminosilicates, silicates, zeolites, polycarboxylates, phosphates, polyphosphates, phosphonates, nitrilotriacetic acid, carbonates, bicarbonates, and mixtures thereof.

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13. An ultrasonic cleaning composition according to any of claims 3 to 12 wherein said diamine has the formula:

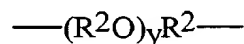


wherein each R is independently selected from the group consisting of hydrogen, C1-C4 linear or branched alkyl, alkyleneoxy having the formula:



wherein R<sup>2</sup> is C2-C4 linear or branched alkylene, and mixtures thereof; R<sup>3</sup> is hydrogen, C1-C4 alkyl, and mixtures thereof; y is from 1 to about 10; X is a unit selected from:

- i) C3-C10 linear alkylene, C3-C10 branched alkylene, C3-C10 cyclic alkylene, C3-C10 branched cyclic alkylene, an alkyleneoxyalkylene having the formula:



wherein R<sup>2</sup> and y are the same as defined herein above;

- ii) C3-C10 linear, C3-C10 branched linear, C3-C10 cyclic, C3-C10 branched cyclic alkylene, C6-C10 arylene, wherein said unit comprises one or more electron donating or electron withdrawing moieties which provide said diamine with a pK<sub>a</sub> greater than about 8; and  
iii) mixtures of (i) and (ii);

provided said diamine has a pK<sub>a</sub> of at least about 8.

14. A method of washing tableware said method comprising contacting soiled tableware in need of cleaning with an aqueous solution of the composition according to any of claims 1 to 13 and then imparting ultrasonic waves to said soiled tableware.
15. A method of removing tough food soil from a hard surface said method comprising contacting said soil with either an aqueous solution or a neat solution of the

composition according to any of claims 1 to 13 and then imparting ultrasonic waves to said soil.

16. A composition according to any of claims 1 to 13 wherein said composition is designed to have dissolved air, preferably dissolved oxygen, removed by ultrasonic energy.

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